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# NiceZyme View of ENZYME: EC 4.2.1.84

## Official Name

Nitrile hydratase.

## Alternative Name(s)

Nitrilase.

Nitrile hydro-lyase.

## Reaction catalysed

An aliphatic amide  $\rightleftharpoons$  a nitrile + H(2)O

## Comment(s)

- Acts on short-chain aliphatic nitriles, converting them into the corresponding acid amides.
- Does not act on these amides or on aromatic nitriles (cf. EC 3.5.5.1).

## Cross-references

BRENDA 4.2.1.84

PUMA2 4.2.1.84

PRIAM enzyme-specific profiles 4.2.1.84

KEGG Ligand Database for  
Enzyme Nomenclature 4.2.1.84

IUBMB Enzyme Nomenclature 4.2.1.84

IntEnz 4.2.1.84

MEDLINE Find literature relating to 4.2.1.84

MetaCyc 4.2.1.84

## UniProtKB/Swiss-Prot

P21219, NHA1\_RHORH; P29378, NHA2\_RHORH; P27764, NHAA\_PSECL;  
P97051, NHAA\_PSEPU; Q7SID2, NHAA\_PSETH; P13448, NHAA\_RHOER;  
Q53118, NHAA\_RHOSO; P27763, NHAB\_PSECL; P97052, NHAB\_PSEPU;  
Q7SID3, NHAB\_PSETH; P13449, NHAB\_RHOER; Q53117, NHAB\_RHOSO;  
P21220, NHB1\_RHORH; P29379, NHB2\_RHORH;

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All UniProtKB/Swiss-Prot entries referenced in this entry, with possibility to download in different formats, align etc.

All ENZYME / UniProtKB/Swiss-Prot entries corresponding to 4.2.1.-

All ENZYME / UniProtKB/Swiss-Prot entries corresponding to 4.2.-.-

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